CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-158

WATER RECLAMATION REQUIREMENTS FOR:

ROBERT MONDAVI WINERY
OAKVILLE, NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. Robert Mondavi Winery submitted a report of waste discharge dated October 23, 1979.

2. Robert Mondavi Winery (hereinafter discharger) discharges the following waste:

   a. Waste No. 1 consists of 5500 gallons per day (gpd) of sanitary sewage from 60 employees and 1500 visitors per day. The waste is discharged into a system of septic tanks and subsurface leach fields located on the discharger's property.

   b. Waste No. 2 consists of industrial waste only from the production of wine including crushing, bottling, and cleanup operations. The estimated flow is 60,000 gpd average and 80,000 gpd maximum during grape-crushing season (August 15 to November 1) based on 16,600 ton annual crush. Flow averages about half this value during the remainder of the year. Winery waste will be screened, neutralized with ammonia, biologically oxidized and stored in two aerated oxidation ponds of 6.95 million gallons capacity and a third oxidation pond of 9.08 million gallons capacity, and used for irrigation on 1 1/2 acres of landscaping and 130 acres of vineyard. All process waste will be contained on the discharger's property.

   c. Waste No. 3 consists of the residue to be cleaned from the drained oxidation ponds every few years. The waste is to be removed and hauled to a Class II solid waste disposal site or worked into the vineyard land in a way that will not cause excessive odor or nuisance.

3. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) in April 1975. The Basin Plan contains water quality objectives for the Napa Valley area.

4. The beneficial uses of the Napa River downstream from the winery property are:

   a. Domestic water supply for irrigating family gardens.

   b. Agricultural water supply for stock watering, irrigation and frost protection.

   c. Water contact recreation.

d. Fish migration and habitat.

e. Preservation and enhancement of fish, wildlife and other aquatic resources.

f. Esthetic enjoyment.

5. The beneficial uses of the Napa Valley ground waters as set forth in the Basin Plan include:

a. Domestic water supply.

b. Agricultural water supply.

6. The discharge is presently governed by Waste Discharge Requirements in Order No. 75-32 which was adopted on June 17, 1975.

7. As this project is adoption of waste discharge requirements for an expansion of treatment facilities for an existing discharge, this Board, pursuant to Water Code Section 13389, is not required to comply with the provisions of Chapter 3 of Division 13 of the Public Resources Code (California Environmental Quality Act).

8. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirments for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, that the discharger shall comply with the following:

A. Prohibitions

1. The collection, treatment, and reclamation or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.

2. There shall be no bypass or overflow of waste to waters of the State either at the oxidation ponds or from the collection system.

3. The waste shall not be allowed to escape from the discharger's irrigation or disposal area into waters of the State via surface flow, resurfacing after percolation or airborne spray.

4. The waste shall not cause degradation of any ground water so as to impair beneficial use.

5. Waste No. 1 or sanitary sewage from any source shall not be discharged into the oxidation ponds.

B. Discharge Specifications

1. Waste within one foot of the surface of the oxidation ponds shall meet the following limits at all times:

Dissolved Oxygen	2.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l maximum
pH	6.0 minimum 9.0 maximum

2. Waste as discharged to the spray irrigation area shall meet the following quality limit at all times:

5-day BOD	40 mg/l maximum

3. A minimum freeboard of at least 2 foot shall be maintained in the oxidation ponds.

4. The oxidation ponds shall be protected against erosion, washout and flooding from a flood having a predicted frequency of once in 100 years.

5. Waste discharged through leach lines into the soil shall be kept below ground surface.

C. Reclaimed Wastewater Use Limitations

1. The discharger shall submit a map, by December 1, 1979, showing the exact areas and fields to be irrigated or receive residue from pond cleaning. Revised maps must be submitted before any future change is made in the areas to be irrigated or used for disposal of residue from pond cleaning.

2. Wastewater irrigation ponding which could provide a breeding area for mosquitoes shall be prevented.

D. Provisions

1. The discharger shall comply with the following time schedule to assure compliance with Prohibition A.5. of this order:

Task	Completion Date
a. Determine cause of reported high coliform analyses	December 1, 1979
b. Submit schedule of corrective actions, if needed	December 15, 1979
c. Full compliance	February 1, 1980

2. Vertical and lateral hydralic continuity of pond waste with ground water shall be prevented by an adequate barrier. The barrier shall be at least equivalent to a natural clay barrier of three foot thickness with permeability of 10^{-6} cm/sec on the bottom and sides of each pond. If the natural clay barrier does not exist, the constructed barrier shall be at least one foot thick and laid in at least two lifts.

3. Discharge of waste to the proposed third oxidation pond is prohibited until the existence and continuity of the barrier required in Provision D.2 for that pond is demonstrated to the satisfaction of this Board's Executive Officer. Reports submitted to demonstrate compliance with Provision D.2 shall be signed by an engineer or engineering geologist registered or certified in the State of California.

4. The discharger shall comply with Standard Provisions Nos. 2, 3, 4, 6, 8, 11, 12, 13, 14, 15, and 17; and all Reporting Requirements and Definitions of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977.

5. The discharger shall comply with the Self-Monitoring Program as ordered by the Executive Officer.

6. The discharger shall file with this Board a report of any material change or proposed change in the character, treatment, or volume of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, or ownership of the property.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on November 20, 1979.

FRED H. DIERKER
Executive Officer

Attachment:
Standard Provisions, Reporting
Requirements and Definitions dated April 1977